

IN THE CLAIMS:

Please amend the claims as follows:

1.-38. (Canceled).

39. (Currently Amended) A tissue spectroscopy device comprising:

a spectrometer comprising a distal end, said distal end comprising:

a light emitting portion providing only ultraviolet (UV) light to tissue, and

a light detector;

a substrate, wherein the light emitting portion and the light detector are both disposed on a first surface of the substrate; and

an interventional device for delivering said spectrometer to a tissue.

40. (Previously Presented) The device of claim 39 further comprising a filter associated with said light detector, filtering at least a portion of light received by said detector.

41. (Previously Presented) The device of claim 40 wherein said filter is a bandpass filter centered around 380 nm.

42. (Previously Presented) The device of claim 40 wherein said light detector comprises a first channel and a second channel and wherein said filter is disposed on said first channel.

43. (Previously Presented) The device of claim 39 wherein said light emitting portion comprises a light source.
44. (Previously Presented) The device of claim 43 wherein said light emitting portion further comprises a lens.
45. (Previously Presented) The device of claim 43 wherein said light emitting portion further comprises a filter, said filter permitting light output only within the UV range.
46. (Canceled)
47. (Currently Amended) The device of claim ~~[[46]]~~ 39 wherein said spectrometer further comprises a heat sink disposed on a second surface of said substrate opposite said first surface.
48. (Currently Amended) The device of claim ~~[[46]]~~ 39 wherein said spectrometer further comprises a light modulator disposed on said first surface of said substrate, a mirror disposed on said light modulator at an angle to receive light emitted by said light source, and an etched gap between said light modulator and said light source.
49. (Currently Amended) The device of claim ~~[[46]]~~ 39 wherein said substrate comprises doped silicon.
50. (Previously Presented) The device of claim 39 wherein said light detector comprises an avalanche photodiode array.
51. (Previously Presented) The device of claim 39 wherein said distal end further comprises a substantially transparent window.

52. (Previously Presented) The device of claim 51 wherein said window comprises a material selected from a group consisting of polystyrene, polycarbonate, and methyl-methacrylate.
53. (Previously Presented) The device of claim 39 wherein said spectrometer further comprises an optical device selected from the group consisting of a lens, a filter, a mirror, a frequency multiplier, a binary optical step, a grating, and a hologram.
54. (Previously Presented) The device of claim 53 wherein said filter is serrated.
55. (Currently Amended) A method for characterizing a tissue, said method comprising the steps of:
- (a) providing a spectrometer comprising a distal end, said distal end comprising a light emitting portion and a light detector disposed on a first surface of a substrate;
 - (b) using an interventional device to deliver said spectrometer to a tissue;
 - (c) connecting said spectrometer to a power source;
 - (d) transmitting only ultraviolet (UV) light through said light emitting portion to illuminate said tissue; and
 - (e) using said light detector to measure an optical property of light from illuminated tissue.
56. (Previously Presented) The method of claim 55, wherein step (e) comprises using a filter to filter at least a portion of light received by said detector.

57. (Previously Presented) The method of claim 56, wherein said light detector comprises a first channel and a second channel and wherein said filter is disposed on said first channel.
58. (Previously Presented) The method of claim 55 wherein the light emitting portion comprises a light source and a filter, and said step (d) comprises using said filter to filter the light from said light source such that the light output is only in the UV range.
59. (Previously Presented) The device of claim 45 wherein said filter permits all wavelengths between about 300 nm to 400 nm.